

19990306.ba v02_n452.bam.990306

>From ???@??? Sun Mar 07 12:09:06 1999
Date: Sat, 6 Mar 1999 20:46:16 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2452
Message-Id: <19990307023648.683C6510B1@devel43.theporch.com>

BOATANCHORS Digest 2452

Topics covered in this issue include:

- 1) Re: BC-611 question
by Lenox Carruth <carruth@geo-thermal.com>
- 2) Metox and U-boats
by "Don L. Davis" <dxguy@earthlink.net>
- 3) Re: BC-611 question
by "Mike B. Feher" <n4fs@monmouth.com>
- 4) [Fwd: NEEDED: E-101 Chopper]
by Dan Arney <kn6di@groupone.net>
- 5) Re: Metox and U-boats
by Kargokult@aol.com
- 6) MWARS... note.
by BEN NOCK <G4BXD@compuserve.com>
- 7) Re: BC-611 Question
by David Stinson <arc5@ix.netcom.com>
- 8) RE: BC-611 Question
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 9) ART-13 Compedium
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 10) Re: Metox and U-boats
by Lenox Carruth <carruth@geo-thermal.com>
- 11) Re: Metox and U-boats
by W0E0M@aol.com
- 12) Re: SX-73: Do Not Adjust This Cap
by "Arden Allen" <gumbear@pacbell.net>
- 13) RE: Copying RTTY
by "Christopher A. Bowne" <radiobwn@ricconnect.com>
- 14) Re: Drake AC-4 Specs?
by Dexter Francis <cwest@xmission.com>
- 15) Re: Drake AC-4 Specs?
by Jim Roik <jnroik@escape.ca>
- 16) FS or Trade: TMC Short Form Catalog
by "Richard W. Solomon" <w1kszt@tiac.net>
- 17) FS/Trade: Eico 730 Manual
by "Richard W. Solomon" <w1kszt@tiac.net>
- 18) FMLA: Ducking It

by mnhopkins@juno.com
19) FS: Hallicrafters & Heathkit
by AA5QT@aol.com
20) BA LOCATIONS IN NEW ORLEANS
by Jim Roik <jnroik@escape.ca>
21) 51J/388 AGC
by Dan Martin <dmartin@visuallink.com>
22) Another Voice Silent
by Dick Dillman <ddillman@igc.apc.org>

Message-ID: <36E0C3F7.212FD756@geo-thermal.com>
Date: Fri, 05 Mar 1999 23:58:15 -0600
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BC-611 question
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yep, looked like a D-cell on Viagra. It was a BA-37. Plate battery was a BA-38. Adapter FT-501 allowed the use of two regular D-cells.

David Ross wrote:

> What sort of filament battery does the BC-611 use? Some sort of an
> oversize "D" cell? What is the BA- number?
>

--

Lenox

Lenox Carruth Dallas, TX carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TBX accessories, GY-11, WW-II era Sextant

Message-ID: <36E0DA81.1F08@earthlink.net>
Date: Fri, 05 Mar 1999 23:35:12 -0800
From: "Don L. Davis" <dxguy@earthlink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Metox and U-boats

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Having studied this (WWII & submarines & their detection) in depth a number of years ago for a related work project, I thought that I had heard of this rumor (of receiver radiation leading to U-boat trackings) being de-bunked years ago. Referring to Samuel Eliot Morison's book "History of US Naval Operations in WWII: Vol. X; The Atlantic Battle Won", I picked the book up and opened it (at random!) to page 99, and read the following:

"The Germans were still seriously disturbed because they were unable to ascertain the cause of so many successful surprise attacks on U-boats at night... In August [1943] Doenitz thought he had the answer: that his Metox radar receiver was sending out impulses which guided the planes to their quarry. Metox was promptly scrapped and replaced by a new type; but the Grossadmiral's diagnosis was wrong. It was the ASV microwave radar which led to so many sightings and attacks, as the Germans finally learned in December 1943; and not until March 1944, after studying a microwave set recovered from a crashed bomber, did they manage to install an efficient receiver in U-boats."

This seems to make a lot of sense, as I can find no reports of subs being found or sunk due to receiver radiation detection, out of 587 sinkings listed and described in the literature. There is always another, fairly prozaic, method of detection ascribed.

I heartily recommend any of Morison's books for great history of WWII and other naval ops. One of the main means of tracking the U-boats in the war was due to the German chain of command, whereby Doenitz insisted on managing every operation personally. The U-boats had to send ops reports to HQ, and were easily found by the Allies by using HF-DF units (huff-duff). Two bearings, and you're in business!

BA content: What output tubes were used in the ASV plane mounted radar? Do any of these units survive today?

73

Don Davis

Message-ID: <00cc01be67d6\$1dea28e0\$a11bbfd1@n4fs>
From: "Mike B. Feher" <n4fs@monmouth.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BC-611 question
Date: Sat, 6 Mar 1999 05:34:48 -0800
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave -

Yes the BA-37 is an elongated 1.5 volt dry cell. There are adapters available that allow the use of two common D cells in parallel in it's place. 73 - Mike

Mike B. Feher, N4FS
89 Arnold Blvd.
Howell, NJ, 07731
732-901-9193

-----Original Message-----
From: David Ross <ross@hypertools.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Friday, March 05, 1999 9:08 PM
Subject: BC-611 question

>BAfolks -
>
> What sort of filament battery does the BC-611 use? Some sort of an
>oversize "D" cell? What is the BA- number?
>
>thanks!
>Dave Ross N7EPI ross@hypertools.com
>
>

Message-ID: <36E10AF1.8E098D0C@groupone.net>
Date: Sat, 06 Mar 1999 03:01:05 -0800
From: Dan Arney <kn6di@groupone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: [Fwd: NEEDED: E-101 Chopper]
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chopper is still needed. Or can someone provide a circuit to use sand to do it.
Thanks Hank

----- Original Message -----

Subject: NEEDED: E-101 Chopper
Date: Mon, 26 Oct 1998 20:11:03 -0800
From: Dan Arney <kn6di@groupone.net>
Reply-To: kn6di@groupone.net
Organization: Global Pack & Mail
To: Old Tube Radios <boatanchors@theporch.com>

I need the chopper for the URM-50 Field strength meter. it is an 8 pin metale shielded can does 90CPS AC output to the meter circuit.

Has a part number N17-V-49179-5166 Inverter-Vibrator DC-AC Chopper 10-500CPSinput to coil 6V AC 2 1/2" H X excluding pins 1" diam. pins numbered 1 -8 National ompany drawing /part R769-1 Mfr code 1392 Type A-1300.

Any help would be greatly appreciated.

Thanks,

Hank KN6DI

73

From: Kargokult@aol.com
Message-ID: <8307e0ca.36e120bb@aol.com>
Date: Sat, 6 Mar 1999 07:34:03 EST
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: Metox and U-boats
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a beam dated 99-03-06 02:37:50 EST,
dxguy@earthlink.net signalled:

> What output tubes were used in the ASV plane mounted
> radar? Do any of these units survive today?

---i opine that the microwave radars are very, very rare. i have seen next to nothing in this line. i believe it is the rarest of the rare, rarer than "spy equipment" by far. at least by what i have seen in the northwest.

the earlier circa 500 MHz radar: you can still find pieces and with much effort probably assemble a whole set. in the type ASB 420 MHz region radar, i had one near complete, new boxed with antennas, i traded off around 1980; i was offered another about the same time. i'm aware that one restorer on the east coast has a complete or near complete ASB. this would look pretty neat working into some artificial antenna, but with the number of pieces required to do it, i would have to sacrifice too much other more loved gear to clear space.

hue ka7lxy

Date: Sat, 6 Mar 1999 08:07:08 -0500
From: BEN NOCK <G4BXD@compuserve.com>
Subject: MWARS... note.
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199903060807_MC2-6CEC-C811@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Comment regarding the Military Wireless Amateur Radio Society (sic)

Well it seems that the committee at MWARS is doing all it can to discourage members from being such.

Instead of doing all it can to attract and keep members it is quite happy=

to =

aggravate and annoy members so that they leave. =

The latest trick it to forget to send members reminders about subs then, when they are over due, a note is sent telling them that they are now "over due"

and if they fail to pay up they are out. No nicely worded reminder though, something like "I'm sure its an oversight but please send subs soon", oh no, a turs=t rough =

"pay up or else" message, equally matched by a total disinterest and couldn't care less attitude shown during a phone conversation. =

So, obviously the MWARS do not want members, or at any rate certain members, =

like those with large collections, acres of documentation and world wide contacts.

Obviously a club to avoid like the plague if you have any sense.

Ben G4BXD.

Message-ID: <36E138A9.96028989@ix.netcom.com>
Date: Sat, 06 Mar 1999 08:16:09 -0600
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BC-611 Question
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The "A" battery in the the 611 was a BA-37 , which is unobtainable. if you don't have one of the fancy adapters that allows the use of two "D" cells in parallel, there's an alternative. Go to the army/navy store and get the brass case from an expended 50 caliber round. Drop this case in the "A" battery channel and follow with a "D" cell. Good for about 5 hours ops if you use alkaline.

73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Date: Sat, 6 Mar 1999 10:03:12 -0500
From: "ROBERT W. DOWNS" <RWDDowns_WA5CAB@compuserve.com>
Subject: RE: BC-611 Question
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199903061004_MC2-6CFB-5619@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Dave, Sandy & group,

Sandy is correct. The special adaptor to use two BA-30's (D-cells) is FT-501-A, which I have a bunch of. The original battery was the BA-37, which is about 2-1/4 D-cells long and 1.5V. As I understand it, the operating life of the A battery (BA-37) and B battery (BA-38) was out of balance, and a lot of BA-37's were being discarded in partially discharged condition, so the Signal Corps came up with the adaptor. =

The .50 cal shell casing comment is also correct. I've got a couple and have tried it, although the single D-cell doesn't last very long at twice= the discharge current.

73,
Robert Downs
WA5CAB
Houston

Date: Sat, 6 Mar 1999 10:06:23 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: ART-13 Compedium
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199903061006_MC2-6CF1-2596@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Group,

Lon, K5JV, had those.

73,
Robert Downs
WA5CAB
Houston

Message-ID: <36E14676.5AE52FB0@geo-thermal.com>
Date: Sat, 06 Mar 1999 09:15:02 -0600
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Metox and U-boats
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As I recall, the airborne radars were quite common years ago when WW-II surplus electronics was everywhere. I recall seeing entire units for sale still in the box. I have collected several magnetron tubes and have some of them mounted on walnut bases in my office including an example of those used in the famous SCR-584 and the American H2X BT0 radar. Those tube types are 2J31 and 725A. The 2K25/723A Klystrons used in the H2X are quite commonly available.

I got most of my magnetrons from Fair Radio although I think that they are out of the ones that actually have WW-II dates on them. ARRL handbooks, at least through the '50s, listed a page of magnetrons and a page of klystrons in the tube data section. Magnetron magnets were also readily available often advertised as being good for retrieving that outboard motor you dropped in the lake.

These things are still probably stuffed in attics, garages and barns around the country. I know of two complete, NOS radars that the owner won't sell. We wanted one for the CAF R4D which was actually an antisubmarine plane late in the war.

> What output tubes were used in the ASV plane mounted
> radar? Do any of these units survive today?

--

Lenox

Lenox Carruth Dallas, TX carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TBX accessories, GY-11, WW-II era Sextant

From: W0E0M@aol.com
Message-ID: <dbb8fbac.36e15805@aol.com>
Date: Sat, 6 Mar 1999 11:29:57 EST
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Subject: Re: Metox and U-boats
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

A comment on the ASV radar from the book Electronic Warfare: The US Navy had received the British ASV Mark II radar (late 1941), which operated on 176 mhz. with some changes, this set was about to enter production as the ASE (SCR-521) for PBV and other aircraft. In the test stage was the ASB operating on 515 mhz. for night fighters, we had acquired the British AI Mark IV operating at 200 mhz. this set became the SCR-540. at this time , the Rad Lab was just starting to develop 3000 mhz radars using magnetrons. no data found yet as to tubes used, etc.

73, Will Santa Clara, CA

Message-Id: <199903061642.IAA03635@mail-gw.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: SX-73: Do Not Adjust This Cap
Date: Sat, 6 Mar 1999 08:42:14 -0800
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

AB;

> In the depot service manual, there are detailed instructions for aligning
> the set. However, these instructions say (when referring to X), that
this
> is to compensate for component tolerances and should never be adjusted.
> That's all well and good, but I ended up having to rebuild completely the
> oscillator module. At this point the adjustment of X is by guess and by
> golly, whatever puts the frequency somewhere near where it is sposed to
be.

>
> Any words on tweaking this critter?

This is one of those answers that comes from left field: Anything that is adjustable can be put right. It's a matter of experimenting and making note of what occurs with various adjustments and how they interact with others. When you have enough experimental information you than can see how theory explains the need for the way the rig is built (or the way it shouldn't have been built!). I hope you don't misunderstand this comment, the idea is to give you the confidence to work it out and don't give up 'til you do. Hang in there.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <01BE67C9.AB7DFA40@mys8.riconnect.com>
From: "Christopher A. Bowne" <radiobwn@riconnect.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Copying RTTY
Date: Sat, 6 Mar 1999 12:05:40 -0500

Re the "old navy chief " story - I recall seeing on a 60s TV game show, perhaps "What's My Line?", a Navy Chief Radioman who allegedly could copy two high speed Morse circuits simultaneously, and actually demonstrated it on the show. Anyone else remember this?

73,

Chris Bowne, AJ1G
Stonngton, CT
radiobwn@riconnect.com

Message-Id: <103130300b306014b418b@[166.70.9.35]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dexter Francis <cwest@xmission.com>
Subject: Re: Drake AC-4 Specs?
Date: Sat, 6 Mar 1999 10:43:25 -0700

Greetings all -

I'm working on a Drake TR-4, but lack the AC-4 power supply.

Can someone provide the voltages and currents required?

I seem to recall 650 Volts, 250 Volts, -55 Volts and 6.3 Volts, but don't recall the current ratings.

-df

Thank you for contacting us!
Visit our Web Site at:
<http://www.xmission.com/~cwest/>
CWest - P.O. Box 22443 SLC, UT 84122

Message-Id: <3.0.1.32.19990306123340.006c3f3c@mail.escape.ca>
Date: Sat, 06 Mar 1999 12:33:40 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Roik <jnroik@escape.ca>
Subject: Re: Drake AC-4 Specs?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:43 AM 3/6/99 -0700, Dexter Francis wrote:
>Greetings all -

>
>I'm working on a Drake TR-4, but lack the AC-4 power supply.
>
>Can someone provide the voltages and currents required?

The specs are;

650 v at 200 ma avg and 330 ma maximum with 10%regulation from 66 ma to 330 ma and maximum ripple less than 1%

250 v at 120 ma with 10% regulation from 82 ma to 120 ma, This includes the effect of the 650 v supply change if both are obtained from the same transformer. Maximum ripple <1/4%.

-45 to -65 VDC adjustable filtered bias into 33 kohm load

12.6 volts ac or dc at 3 amps

Jim VE4AQ
Best wishes.

Jim VE4AQ

Message-ID: <01BE67DE.718206A0.w1kszt@tiac.net>
From: "Richard W. Solomon" <w1kszt@tiac.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS or Trade: TMC Short Form Catalog
Date: Sat, 6 Mar 1999 14:27:19 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Found this while looking for the Eimac Book. It's the Technical Materiel Corp Short Form Catalog, circa early-mid 60's. About 30 pages with all those mouth-watering BA's in living B&W. Will trade or sell (make offer).

Looking for:

6 Meter Antenna (Halo, Squalo or something small)
6 Meter Converter (So I can use my LI'L LULU !!)

73, Dick, W1KSZ

Message-ID: <01BE67DE.7357FF20.w1kszt@tiac.net>
From: "Richard W. Solomon" <w1kszt@tiac.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS/Trade: Eico 730 Manual

Date: Sat, 6 Mar 1999 14:31:34 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Also found while looking, 20+ page Assembly/Instruction Manual.
Light Blue pencil marks checking off assembly progress. I must of
loaned this to someone ... I remember dumping the box of parts on
a table and starting with the mike connector right through to the
output connector, who needs instructions !! And it worked.
Will sell or trade, make an offer.
Still looking for a small 6 meter antenna and a 6 meter converter.

73, Dick, W1KSZ

From: mnhopkins@juno.com
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 6 Mar 1999 14:19:12 -0600
Subject: FMLA: Ducking It
Message-ID: <19990306.141919.-513241.1.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

"Mr. Hitler man," Grace said, "Can you help me with this big package?"

The young man would have bristled at that had he not shaved his head. I
call him the WARmon and some days before, recalling a joke about an
African who tried to convince a racist bartender he was Hispanic, the
jackbooted bodyguard addressed our dark skinned letter carrier as
"Carnala."

The response was a string of Spanish most missed but my daughter's
friend, Isabella, turned away and covered her face. Later she told us
the letter carrier characterized the WARmon's ancestry as a product of
the meeting of a canine and a goat.

But today the WARmon's officer, a thin woman named Christie, nodded, and
he helped Grace move a large package to the porch. Christie stayed in
their Toyota Land Cruiser with Charlie the ferret who glared at the
interrupting humans with her demonic red eyes before regressing into a
contorted nap on Christie's lap. Charlie is all white, which is just
what the two bodyguards prefer, but they dutifully stay in my inner city
neighborhood to protect my pal Frank, who does communications for their
organization.

I learned of this exchange from my 9-year-old daughter who sought me out

saying "Daddy, Daddy, Frank ordered something for Mr. Duckie." I doubted that, but who can rule out any activity from a man who plans to take back 56-60 mc with a Five Meter Liberation Army?

Mr. Duckie is a waterfowl with a parentage more mixed than Grace's. He wandered up one day and my wife took him in. We learned he would not go near water, so I suggested we name him for some of my wife's too-Irish relatives, but the name "Mr. Duckie" stuck. It seemed unlikely Frank would get the beast a present but, that said, W5FRS's XYL Sandy sends gifts for it. You never know.

My daughter led me down the stairs to the basement workshop and before I talked to Frank I cleared up the mystery. On a table was the large package, addressed to Frank who the sender characterized as "Master," and bearing the return address of the William Duck company of Toledo. I was fascinated by an empty wooden box in the mass of packaging. It looked as if it once held some sort of chemical beaker and another, unopened, container of inlaid corner hardwood was still in the box. "Just more radio stuff," my daughter pronounced. She bounced up the stairs.

In the next room I found Frank, but I thought of Science Fiction Theater, a 1950s TV show. In the beginning credits they panned through a fanciful laboratory and the Cunningham 304 tube Frank held would have fit right in with the pie pan/ice pick combo they presented as an antenna. The large glass envelope bulged at the center and it had a big plate cap.

Frank was putting it into the cabinet of a Collins transmitter he gutted for the project. He even removed the Collins emblem, this one a meatball, and tossed it into an old Collins PTO can he keeps for such trinkets. He has three full ones already against the annual Dia De Los Muertos celebration at a nearby church. Frank goes all out for that event every year, including giving the logos to children in a "go fish" booth at the fair that accompanies the so-called "Mexican Halloween."

I commented on the tube's appearance, and Frank looked at it for a moment, then at me questioningly. It seemed perfectly normal to him, as I guess it might to a guy who runs a pair of 100THs at home. He was tired of my QRP stuff and wanted to build a QRO final in our shared shop.

"A Cunningham 304 is a good choice here," he said, as we had plenty of 12 volt. Each tube takes 15 amps. He called the 2KV plate equipment "modest" and already had a bank of caps worked up to get the B+ from the line. Frank does not like to use a transformer when "the power company keeps a nice one right outside on a pole."

Sockets are never a problem for Frank. He drills a hole in a wood panel for the base and solders or clips the elements to minimize stray inductance. The bays for the Cunninghams were already cut and he had a

set of 5 or 6 inch coils made up to hit 40M. Frank uses only open line and the push-push (or push-pull if he changes the alligators) PA would feed my 30M dipole against ground. Frank always uses a separate receive antenna. At my question, he said the tubes cost \$110 each, which I thought not too bad for 250mA tubes, especially for a man who always has over \$2K in his pocket.

Big triodes need a lot of drive, so Frank had built up a one tube crystal cracker using an 813 fed from the same B+ thru a shoebox-sized choke marked only "USN." He checked the lashup by drawing an arc with an Eagle Mirado and got down to business using a saw blade sideswiper that threw little sparks on break after a long dash. Tuning his Supergainer with his left hand, and wearing his Brandes 'phones, he looked like some woodcut from Shortwave Craft in the light of the C 304's heaters.

Satisfied with CW, he changed the bias and modulated the 813's screen for a long QSO with some OT in Colorado who was running a QRP AM rig with Class B push-pull, or what Frank usually calls "inefficiency modulation."

He did not pick a fight with the 80-some-year-old guy, though. He just chit chatted for an hour about broadcasting in the late '20s. When he signed and cut the carrier he said I could have the wooden boxes to make hope chests for my kid's Barbies.

Gathering the crates, I looked again at the label. I was a stamp collector as a kid and the ornate reproductions, I thought they were reproductions, caught my eye. But the package traveled for 48 cents so I looked closer and found a postmark of 20 April, 1921.

I meant to ask Grace about that, but decided she might take it personally.

de ab5L, Michael Hopkins, Box 226841, Dallas, TX 75222,
MNHopkins@JUNO.com FMLA XXVI
Student of Tecraft, ICM, and Six Meters' golden age, 1956-58.

From: AA5QT@aol.com
Message-ID: <d53891f8.36e19420@aol.com>
Date: Sat, 6 Mar 1999 15:46:24 EST
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: FS: Hallicrafters & Heathkit
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Local pick-up only (or I'll meet within reasonable driving distance of Houston).

Hallicrafters HT-37 transmitter. Front panel excellent, no mods, original manual, new finals, seems to work fine. \$120.

Heathkit Shawnee 6 meter transceiver (also very heavy!). Front panel excellent, no mods, original manual. I can't test it on six, but there's static in the rx and output from the tx. \$90.

73, Gary Youney K5QT

Message-Id: <3.0.1.32.19990306153629.006c956c@mail.escape.ca>
Date: Sat, 06 Mar 1999 15:36:29 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Roik <jnroik@escape.ca>
Subject: BA LOCATIONS IN NEW ORLEANS
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I expect to be in New Orleans in April for a conference. To maintain my sanity, are there any good BA places to visit there?

Best wishes.

Jim VE4AQ

Message-ID: <36E1D998.41C1@visuallink.com>
Date: Sat, 06 Mar 1999 20:42:48 -0500
From: Dan Martin <dmartin@visuallink.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: 51J/388 AGC
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, folks:

Around April of last year Morris Odell wrote an excellent treatise on the 51J AGC and back bias system. Much of what I am referencing now comes out of his comments, as well as the 51J schematic, of course. Anyway, I've got a 51J4 here that does not meet the bias spec on the grid or cathode of the AVC amp, V111A, or the grid of the AF power amp, V113. The spec values are -52, -44, and -12.5, respectively. I have -38, -31, and -6V, respectively. As for the -6V on the grid of the AF amp, as Morris points out, that is less than half what a 6AQ5 should have with 230V on the plate. Morris defined the difference between the spec values

of -52 and -44 as critical as it sets the effective bias for the AGC amp. A difference of about 10 to 12V is wanted. I have 6 or 7V. Importantly, I cannot get but -40V on the hot end of C216 and C205A, bypass caps coming right off the center tap of the HV winding of the transformer that supplies this bias system. Obviously, I'll not get greater than -50V spec values farther downstream after passing through several resistances. Resistances from the tube sockets of these bias supplied tubes check out spot-on, so no resistors have gone up in value, dropping the bias, and no leaky caps are revealing themselves through low measured resistances. Still, I cannot explain what is dragging the bias down so.

Comments, anyone? Doc Odell, are you around?

Dan
WB4GRA
Winchester, VA

Date: Sat, 6 Mar 1999 18:44:51 -0800 (PST)
Message-Id: <2.2.16.19990306184127.493704c0@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: Another Voice Silent

This may be old news to some but according to the current issue of Popular Electronics the AT&T High Seas radiotelephone stations are off the air - and have been since 28 February.

This development must come as a shock to those who depended on the loud and reliable signals from WOO, WOM and KMI as a link to shore from wherever they might be. Only thirty days notice was given.

I myself visited the KMI receiving station north of San Francisco when live operators still adjusted the tuning on real receivers and selected antennas for the best signal. Later they just touched a point on a map to direct the antenna pattern. And later still no radiomen were involved at all and all operations were handled by the High Seas telephone operators.

This leaves only WLO providing HF telephone service from the US. WLO is a vast operation but nothing like AT&T. When I visited there several years ago each HF SSB channel was monitored by a dedicated rack mountable receiver. But they weren't in racks. They were stacked on their sides, with the long dimension vertical, like slices of bread, on a great long shelf above the operating table - not secured to anything. AT&T

installation personnel would never stand for such a thing.

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

End of BOATANCHORS Digest 2452
